## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-20. (cancelled)

21. (currently amended) A system comprising:

a network;

a security operation center coupled with the network; and

one or more machines coupled with the network, each machine comprising a communication interface and a memory including an execution area configured to perform operations comprising examining to examine a set of instructions embodying an invoked application to identify the invoked application, obtaining application-specific intrusion criteria, the application-specific intrusion criteria including intrusion signatures and behavior criteria, and monitoring network communications for the invoked application, after the examining and the obtaining, using the for application-specific intrusion signatures and abnormal application behavior criteria to detect an intrusion.

22. (original) The system of claim 21, wherein the application-specific intrusion criteria comprises a normal communication behavior threshold.

23. (cancelled)

- 24. (currently amended) The system of claim 21, wherein to monitoring network communications comprises to monitoring network communications in a network intrusion detection system component running in an execution context with the invoked application.
- 25. (currently amended) The system of claim 24, wherein the operations further comprise to providing provide an application-specific remedy for a detected intrusion.
- 26. (currently amended) The system of claim 25, wherein to provide providing an application-specific remedy comprises cutting at least a portion of the network communications for the invoked application.
- 27. (currently amended) The system of claim 24, wherein each machine further comprises a local repository and a security operation center, the security operation center includes a master repository, and wherein to obtaining the application-specific intrusion criteria comprises to:

requesting the application-specific intrusion criteria from the local repository;

requesting the application-specific intrusion criteria from the master repository if
the application-specific intrusion criteria is unavailable in the local repository;

receiving receive the application-specific intrusion criteria from the master repository if requested; and

receiving receive the application-specific intrusion criteria from the local repository.

28. (currently amended) The system of claim 24, wherein to examine examining the set of instructions comprises to:

applying a hash function to the set of instructions to generate a condensed representation; and

comparing compare the condensed representation with existing condensed representations for known applications.

29-30. (cancelled)

31. (new) A detection method, comprising:

examining a set of instructions embodying an invoked application to identify the invoked application;

obtaining application-specific intrusion criteria, the application-specific intrusion criteria including application-specific intrusion signatures and behavior criteria; and

monitoring network communications for the invoked application for applicationspecific intrusion signatures and abnormal application behavior to detect an intrusion.

32. (new) The method of claim 31, wherein examining a set of instructions embodying an invoked application to identify the invoked application comprises:

applying a hash function to the set of instructions to generate a condensed representation; and

comparing the condensed representation with existing condensed representations for known applications.

- 33. (new) The method of claim 31, wherein network communications are monitored for application-specific intrusion signatures that correspond to the identified invoked application.
- 34. (new) The method of claim 31, further comprising unloading the application-specific intrusion signatures corresponding to the identified invoked application when the identified invoked application is terminated.
- 35. (new) The method of claim 31, further comprising tracking one or more characteristics of the network communications to identify application-specific abnormal communication behavior.
- 36. (new) The method of claim 35, wherein tracking one or more characteristics of the network communications comprises comparing the one or more characteristics with one or more configurable thresholds.
- 37. (new) The method of claim 35, wherein monitoring network communications comprises monitoring network communications in a network intrusion detection system component invoked with the invoked application.

- 38. (new) The method of claim 37, wherein the network intrusion detection system component and the invoked application run within a single execution context.
- 39. (new) The method of claim 31, further comprising operations to provide an application-specific remedy for a detected intrusion.
- 40. (new) The method of claim 39, wherein operations to provide an application-specific remedy for a detected intrusion comprises cutting at least a portion of the network communications for the invoked application and/or notifying a system administrator of the identified application-specific abnormal communication behavior.
- 41. (new) The method of claim 31, wherein obtaining the application-specific intrusion detection signature comprises loading the application-specific intrusion detection signature from a local signature repository.
- 42. (new) The method of claim 31, wherein obtaining the application-specific intrusion detection signature comprises:

requesting the application-specific intrusion detection signature from a local signature repository in communication with a remote signature repository; and

receiving the application-specific intrusion detection signature from the local signature repository.

43. (new) A machine-readable storage medium embodying machine instructions for causing one or more processors to perform operations comprising:

examining a set of instructions embodying an invoked application to identify the invoked application;

obtaining application-specific intrusion criteria, the application-specific intrusion criteria including application-specific intrusion signatures and behavior criteria; and

monitoring network communications for the invoked application for applicationspecific intrusion signatures and abnormal application behavior to detect an intrusion.

44. (new) The machine-readable storage medium of claim 43, wherein examining a set of instructions embodying an invoked application to identify the invoked application comprises:

applying a hash function to the set of instructions to generate a condensed representation; and

comparing the condensed representation with existing condensed representations for known applications.

45. (new) The machine-readable storage medium of claim 43, wherein network communications are monitored for application-specific intrusion signatures that correspond to the identified invoked application.

- 46. (new) The machine-readable storage medium of claim 43, further comprising unloading the application-specific intrusion signatures corresponding to the identified invoked application when the identified invoked application is terminated.
- 47. (new) The machine-readable storage medium of claim 43, further comprising tracking one or more characteristics of the network communications to identify application-specific abnormal communication behavior.
- 48. (new) The machine-readable storage medium of claim 47, wherein tracking one or more characteristics of the network communications comprises comparing the one or more characteristics with one or more configurable thresholds.
- 49. (new) The machine-readable storage medium of claim 47, wherein monitoring network communications comprises monitoring network communications in a network intrusion detection system component invoked with the invoked application.
- 50. (new) The machine-readable storage medium of claim 49, wherein the network intrusion detection system component and the invoked application run within a single execution context.
- 51. (new) The machine-readable storage medium of claim 43, further comprising operations to provide an application-specific remedy for a detected intrusion.